

ALUMINUM ALLOY PLATE SUPERIOR IN PRESS FORMABILITY

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Abstract of JP2001342577

PROBLEM TO BE SOLVED: To provide a specified urethane coated aluminum alloy plate superior in press formability. **SOLUTION:** Aluminum alloy plate superior in press formability is characterized by providing an alkaline soluble type of lubrication coating with a film thickness of 0.5-10 μ m on its both sides or one side, which mainly consists of a polyurethane composition (A), of which the hydrophilic group is a carboxyl group or a sulfonate group with an acid value in the range of 30-180 and a neutralizer of the hydrophilic group is sodium hydroxide or potassium hydroxide, and a lubrication functionalization agent (B) of 1-30 weight % against the polyurethane composition; along with prescribing an alloy composition and a value of difference (TS-YS) between a tensile strength (TS) before press forming and 0.2% yield strength (YS). The alkaline soluble type of lubrication coating preferably further includes silica particles (C) of 1-30 weight % against the polyurethane composition, as a main component.

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